

What is claimed is:

1. A substrate for a display, comprising:

a plurality of bus lines formed on a base substrate such that they intersect with each other with an insulation film interposed therebetween;

an insulation resin layer formed on the bus lines;

a pixel electrode formed on the insulation resin layer in each of pixel regions arranged on the base substrate; and

an external connection terminal for electrically connecting an external circuit and the bus lines, the external connection terminal including:

a first terminal electrode which has a first layer formed of Al or Al alloy and having a first end face and a second layer formed of a high melting point metal on the first layer and having a second end face located outside the first end face, the first terminal electrode being electrically connected to the bus lines; and

a second terminal electrode which is formed of the same material as that of the pixel electrode on the first terminal electrode and which is electrically connected to the first terminal electrode without contacting the first end face.

2. A substrate for a display according to claim 1, wherein the first terminal electrode further has a third layer formed of a high melting point metal under the first layer.

3. A substrate for a display according to claim 2, wherein

the third layer has a third end face located outside the first end face and wherein the second terminal electrode is in contact with at least the third end face.

4. A substrate for a display, comprising:

a plurality of bus lines formed on a base substrate such that they intersect with each other with an insulation film interposed therebetween;

an insulation resin layer formed on the bus lines;

a pixel electrode formed on the insulation resin layer in each of pixel regions arranged on the base substrate; and

an external connection terminal for electrically connecting an external circuit and the bus lines, the external connection terminal including:

a first terminal electrode which has a first layer formed of Al or Al alloy, an end face insulation film formed on an end face of the first layer, and a second layer formed of a high melting point metal on the first layer and which is electrically connected to the bus lines; and

a second terminal electrode which is formed of the same material as that of the pixel electrode on the first terminal electrode and which is electrically connected to the first terminal electrode without contacting the first layer.

5. A substrate for a display according to claim 4, wherein the end face insulation film is a nitride film or oxide film of the Al or Al alloy.

6. A substrate for a display according to claim 4, wherein the end face insulation film has a thickness of 30 nm or less.

7. A substrate for a display according to claim 1, wherein the first terminal electrode is formed of the same material of which any of the plurality of bus lines is formed.

8. A display comprising a substrate having a plurality of bus lines, wherein a substrate for a display according to claim 1 is used as the substrate.

9. A method of manufacturing a substrate for a display, comprising:

a first step for forming film of Al or Al alloy to form a first layer on a base substrate;

a second step for forming a film of a high melting point metal to form a second layer on the first layer;

a third step for patterning the second layer and the first layer to form a first terminal electrode;

a fourth step for forming an insulation resin layer on the base substrate;

a fifth step for removing the insulation resin layer on the first terminal electrode;

a sixth step for performing side etching such that an end face of the first layer is located inwardly from an end face of the second layer; and

a seventh step for forming a second terminal electrode electrically connected to the first terminal electrode such

that it is not in contact with the first layer.

10. A method of manufacturing a substrate for a display according to claim 9, wherein the sixth step is performed after the fifth step.

11. A method of manufacturing a substrate for a display according to claim 9, wherein the sixth step is performed before the fourth step.

12. A method of manufacturing a substrate for a display, comprising:

a first step for forming film of Al or Al alloy to form a first layer on a base substrate;

a second step for forming a film of a high melting point metal to form a second layer on the first layer;

a third step for patterning the second layer and the first layer to form a first terminal electrode;

a fourth step for forming an insulation resin layer on the base substrate;

a fifth step for removing the insulation resin layer on the first terminal electrode;

a sixth step for forming an end face insulation film on an end face of the first layer; and

a seventh step for forming a second terminal electrode electrically connected to the first terminal electrode such that it is not in contact with the first layer.

13. A method of manufacturing a substrate for a display according to claim 12, wherein the sixth step comprises a process of oxidizing or nitriding the end face of the first layer to form the end face insulation film.

14. A method of manufacturing a substrate for a display according to claim 12, wherein the sixth step is performed after the fifth step.

15. A method of manufacturing a substrate for a display according to claim 9, wherein the first terminal electrode is formed simultaneously with any of a plurality of bus lines.

16. A method of manufacturing a substrate for a display according to claim 9, wherein the second terminal electrode is formed simultaneously with a pixel electrode.